



Zhongtai (Dangara) Sin Silu
Textile Industry Co., Ltd

RIETER



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Advanced compact spinning technology in Tajikistan





ADVANCED COMPACT SPINNING TECHNOLOGY IN TAJIKISTAN

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The Zhongtai Dangara Agriculture and Textile Industrial Park is scheduled to invest a total of US\$ 320 million in three phases of construction. The project consists of: an agricultural park with 15 000 ha for growing cotton; a spinning plant with 110 000 spindles and manufacturing facilities for weaving, printing and garment. In 2015, around 333 ha of cotton were planted and two supporting ginning plants were completed. In 2016, the first phase completed and put into production. The project has been listed as one of Tajikistan's "National Projects" and "Key Projects of Cooperation between China and Tajikistan."

On May 28, 2016, the 60 000 compact spinning spindles had a successful initial run producing premium yarns of USTER 5% quality. Currently, the products are exported to countries such as Egypt, Turkey, Italy, Germany, Russia, Belarus, Ukraine, Kyrgyzstan and China.

Xinjiang Zhongtai Chemical Co., Ltd.

Xinjiang Zhongtai (Group) Co., Ltd. is headquartered in the Urumqi Economic and Technological Development Zone in the regional capital of Xinjiang. In December 2001, Xinjiang Zhongtai Chemical Co., Ltd. replaced Xinjiang Caustic Soda Plant as a shareholding limited company (hereinafter referred

to as "Zhongtai Chemical"). Zhongtai Chemical was listed on the Shenzhen Stock Exchange in 2006. In July 2012, the government of the autonomous region founded the Zhongtai Group, based on Zhongtai Chemical of which it is the actual controlling entity.

Xinjiang Zhongtai (Group) Co., Ltd. has a listed company, Zhongtai Chemical (Stock code 002092) and more than 80 subsidiaries that it either controls or has invested in. Xinjiang Zhongtai (Group) Co., Ltd. has founded 10 major industrial parks in Xinjiang and Tajikistan. This interdependent industrial chain includes 2.3 million tons of PVC resin; 1.5 million tons of caustic soda; 400 000 tons of viscose fibre; spinning capacity of 2 million spindles; 210 000 tons of cotton pulp. etc. The companies are involved in industries that range from chlor-alkali chemical and fine chemical sectors to electricity and energy, viscose textile and overseas investment, etc. The company manages total assets of more than 70 billion yuan. Its more than 30 000 employees generate sales revenues of 30 billion yuan. Direct employment is provided for 7 000 locals in Xinjiang and indirect employment for 300 000 people.

1. Zhongtai plant overview
2. Mr. Wang Hongxin, Chairman of the Zhongtai group and Mr. Rahmon, President of the Tajikistan started machine together









RIETER

The Comfort of Competence

Rieter is the leading supplier of installations for manufacturing yarns from short-staple fibres. Rieter is a competent partner, dedicated to making customers' lives easier by offering care and support from the initial investment discussions to the successful operation of a spinning mill. Rieter's comprehensive know-how from fibre through yarn to the finished textiles provides the basis for innovative machines and consistent yarn quality.

VALUABLE SYSTEMS

Rieter is the only textile machinery manufacturer able to supply all spinning processes and thus provide customers with competent and independent advice, tailored to their individual needs.

The outstanding price/performance ratio, high raw material utilization and the longevity of the products make an investment in Rieter machines extremely attractive.

Since the company was established in Switzerland in 1795, Rieter has developed high quality standards. All manufacturing facilities are ISO 9001 certified.

CONVINCING TECHNOLOGY

With its comprehensive technological know-how covering all four spinning processes through to the textile end product, Rieter advises and assists customers in selecting the right spinning process. Five spinning centers, five textile laboratories and a modern training center in Winterthur are at the disposal of customers worldwide for spinning trials and training purposes.

SUPPORTIVE PARTNERSHIP

Numerous sales and service centers support customers throughout the world. Customers have been able to reap the benefits of a single contact for their entire spinning operations over decades. Put your confidence in Rieter's competence and enjoy the comfort of partnership!

FIBRE PREPARATION

Perfectly coordinated technology from fibre to sliver

Rieter fibre preparation guarantees gentle opening, efficient cleaning and intensive blending of the fibres. Operator-friendly adjustable settings and high cleaning efficiency are the best qualifications for high yarn quality. The greatest possible raw material utilization is achieved by optimally coordinated individual components in the blowroom line. Rieter cards convince by their excellent quality values at highest production, based on the proven 1.5 m working width and the integrated grinding system for card clothing.

MACHINES INSTALLED

- 2 Automatic bale openers UNIfloc A 11
- 2 Pre-cleaners UNIClean B 12
- 1 Waste opener B 25
- 4 Homogeneous mixer B 72 UNImix
- 4 UNIstore A 79
- 4 Condensers A 21
- 11 Card C 70

3. VARIOLine

4. C 70 high-performance card with the active carding area up to 1.5 m







SPINNING PREPARATION

Perfect sliver quality at highest productivity

Rieter has been global market leader in spinning preparation for decades. The combing machines guarantee unrivalled quality and first-rate raw material utilization. Proven technology and innovative elements of the Rieter draw frames ensure constantly high quality values. Rieter autoleveller draw frames feature excellent scanning precision and leveling dynamics. High sliver regularity and quality improve the operating properties in downstream processes. The roving frame supplies a high-quality roving to the ring spinning machines.

MACHINES INSTALLED

- 6 Draw frame SB-D 22
- 4 OMEGAlap combing preparation machine E 35
- 21 Comber E 80
- 5 Draw frames RSB-D 24c
- 10 Roving frame F 36



5. The most economic spinning preparation process with the big can up to 1 000 m
6. E 80 – Quality meets flexibility
7. Independent machine maintenance, flexible and efficient
8. RSB-D 24c double-head autoleveller draw frame
9. Unique winding technology for highest performance







COMPACT SPINNING

Best fibre yield, perfect yarn structure

The Rieter compact spinning machine is unique in producing fully compacted quality yarns. In compact spinning, the edge fibres are completely taken up into the yarn formation. The Com4® quality yarn thus produced stands out with its unrivalled yarn structure and inimitable yarn characteristics with optimal fibre yield. The flexibility and economic efficiency of the machine become manifest not only in the versatile yarn variations and applications, but also in the high degree of process safety and low production costs.

K 42 COMPACT SPINNING MACHINE – FULLY-COMPACTED YARNS ECONOMICALLY PRODUCED

The K 42 compact spinning machine is the economical further development of the successful Rieter compact spinning machines. With up to 1 824 spindles it sets standards in quality and economy. The K 42 also offers maximum flexibility for quality yarns. The machine concept for the compacting system with perforated metal cylinders offers optional double-sided suction and only a fraction of the energy and maintenance costs of other compacting systems is required.

MACHINES INSTALLED

- 37 Compact spinning machine K 42



10. Ergonomic machine operation
11. K 42 compact spinning machine
12. SERVOTrail roving robbin transport system
13. Intermediate drive ensures flexibility and quality
14. Reliable cops transport through SERVODisc







ZHONGTAI (DANGARA) SIN SILU TEXTILE

Top-rated Modern Integrated Textile Industrial Park

With a total investment of 2 billion yuan, the Zhongtai Sin Silu Tajikistan Agricultural and Textile Industrial Park is one of Tajikistan's largest foreign investment projects. Local advantages such as cotton cost, quality and transportation as well as water, land, lighting and heating and favourable national policies in support of such projects were deciding factors.

Zhongtai Group Project:

Cotton farming and in-depth processing, covering:

- Spinning facility with 150 000 spindles
- Four ginning factories, producing 25 000 tons of cotton yarn and 50 million meters of cotton fabric yearly
- Around 17 000 ha of cotton farming yielding 86 000 tons of cotton seeds.
- Investment in 150 000 spindles and two ginning plants, around 17 000 ha of cotton planted.
- Investment in weaving, printing, dyeing and in-depth processing.

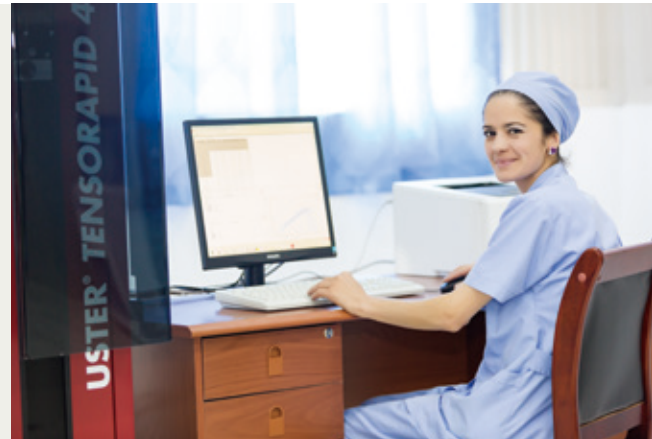
CHINA AND TAJIKISTAN BUILD THE NEW SILK ROAD TOGETHER

The Zhongtai Sin Silu Tajikistan Agricultural and Textile Industrial Park uses state-of-the-art Rieter spinning equipment and globally advanced agricultural equipment. Tajikistan's climate is ideal for cultivating premium cotton varieties. Selection is supported by research and development. The aim is to build an integrated textile industrial park that boasts top-rate finished products with leading textile technology and factory management. With the completion of the entire project, annual sales revenues are expected to reach 2 billion yuan, providing more than 3 000 local jobs. Tajikistan will thus advance its textile technology and make a breakthrough development in its cotton textile industry.

The Zhongtai Group relies on Xinjiang's established cotton industry, its geographical location and technical advantages. Combined with Tajikistan's advantages in environment, market, and human resources, a China-Tajikistan New Silk Road will be built that promotes mutual trade and brings mutual benefits.

15. The state-of the art laboratory at Zhongtai Dangara

16. Strict quality control to ensure high yarn quality





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